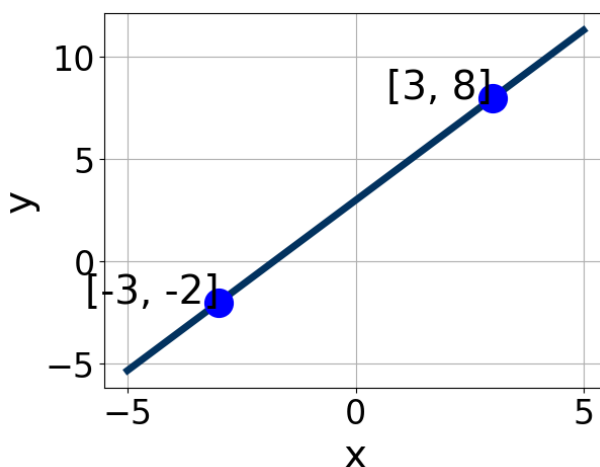


1. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{7x - 8}{4} - \frac{9x + 5}{8} = \frac{5x - 7}{7}$$

- A. $x \in [-68.2, -66.2]$
 - B. $x \in [-2.23, 2.77]$
 - C. $x \in [-22.2, -15.2]$
 - D. $x \in [-5.2, -2.2]$
 - E. There are no real solutions.
-

2. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [5, 8]$, $B \in [1.24, 3.48]$, and $C \in [7.4, 9.5]$
 - B. $A \in [-2.67, 3.33]$, $B \in [-2.13, -0.61]$, and $C \in [-4.5, -2.9]$
 - C. $A \in [5, 8]$, $B \in [-3.76, -1.94]$, and $C \in [-9.2, -7.4]$
 - D. $A \in [-2.67, 3.33]$, $B \in [0.53, 1.28]$, and $C \in [1.3, 3.4]$
 - E. $A \in [-7, -4]$, $B \in [1.24, 3.48]$, and $C \in [7.4, 9.5]$
-

3. Find the equation of the line described below. Write the linear equation

in the form $y = mx + b$ and choose the intervals that contain m and b .

Parallel to $9x - 5y = 11$ and passing through the point $(-8, 8)$.

- A. $m \in [0.9, 2.6]$ $b \in [15, 18]$
 - B. $m \in [0.9, 2.6]$ $b \in [-22.4, -20.4]$
 - C. $m \in [-2.8, -1.2]$ $b \in [-9.4, -1.4]$
 - D. $m \in [-0.1, 1.2]$ $b \in [21.4, 24.4]$
 - E. $m \in [0.9, 2.6]$ $b \in [21.4, 24.4]$
-

4. Solve the equation below. Then, choose the interval that contains the solution.

$$-7(-19x - 4) = -10(-2x - 15)$$

- A. $x \in [1.14, 1.63]$
 - B. $x \in [0.78, 1.1]$
 - C. $x \in [-1.34, -0.95]$
 - D. $x \in [-1.7, -1.34]$
 - E. There are no real solutions.
-

5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Parallel to $5x + 3y = 4$ and passing through the point $(-10, 7)$.

- A. $m \in [-2.68, -1.16]$ $b \in [-12.67, -1.67]$
 - B. $m \in [-2.68, -1.16]$ $b \in [7.67, 12.67]$
 - C. $m \in [-0.34, 2.7]$ $b \in [22.67, 24.67]$
 - D. $m \in [-2.68, -1.16]$ $b \in [17, 21]$
 - E. $m \in [-1.51, -0.19]$ $b \in [-12.67, -1.67]$
-

6. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-3x + 9}{5} - \frac{-5x + 5}{2} = \frac{6x + 7}{4}$$

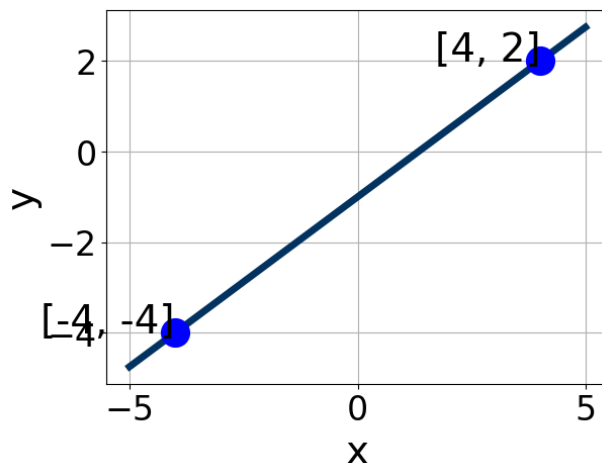
- A. $x \in [-6.38, -3.38]$
 - B. $x \in [7.5, 10.5]$
 - C. $x \in [-2.61, 0.39]$
 - D. $x \in [3.13, 7.13]$
 - E. There are no real solutions.
-

7. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$$(-6, -3) \text{ and } (10, -8)$$

- A. $m \in [-0.81, -0.1]$ $b \in [2.1, 3.4]$
 - B. $m \in [-0.81, -0.1]$ $b \in [4.4, 7]$
 - C. $m \in [-0.81, -0.1]$ $b \in [-19.2, -17]$
 - D. $m \in [-0.81, -0.1]$ $b \in [-6.2, -4.4]$
 - E. $m \in [-0.2, 0.42]$ $b \in [-11.9, -11.1]$
-

8. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [-1.7, 2.6]$, $B \in [0.2, 2.1]$, and $C \in [-1.5, -0.4]$
 B. $A \in [-3.8, -1.5]$, $B \in [2.6, 4.3]$, and $C \in [-5.2, -3.5]$
 C. $A \in [-1.7, 2.6]$, $B \in [-3.2, -0.2]$, and $C \in [-0.4, 2.3]$
 D. $A \in [1.8, 3.1]$, $B \in [-5.6, -1.8]$, and $C \in [2.8, 4.9]$
 E. $A \in [1.8, 3.1]$, $B \in [2.6, 4.3]$, and $C \in [-5.2, -3.5]$

9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$(5, 7)$ and $(2, 6)$

- A. $m \in [-0.2, 1.5]$ $b \in [-0.43, 3.03]$
 B. $m \in [-0.2, 1.5]$ $b \in [3.69, 4.44]$
 C. $m \in [-0.2, 1.5]$ $b \in [4.59, 5.78]$
 D. $m \in [-0.2, 1.5]$ $b \in [-6.33, -5.05]$
 E. $m \in [-2.3, -0.1]$ $b \in [6.03, 7.9]$

10. Solve the equation below. Then, choose the interval that contains the solution.

$$-6(-4x + 9) = -3(-8x - 17)$$

- A. $x \in [-0.04, 0.05]$

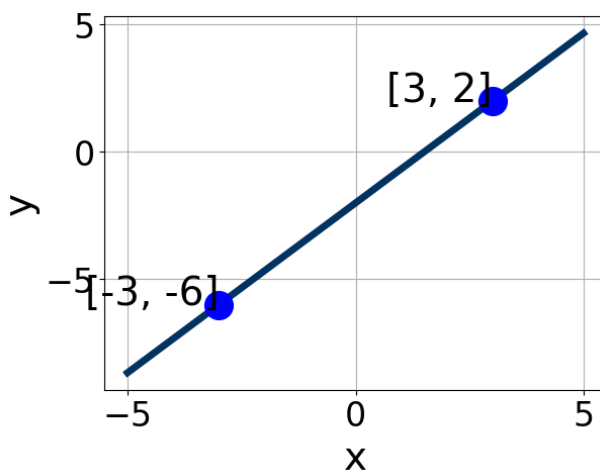
- B. $x \in [0.05, 0.1]$
- C. $x \in [-0.04, 0.05]$
- D. $x \in [-0.04, 0.05]$
- E. There are no real solutions.

-
11. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-4x - 7}{7} - \frac{3x - 5}{4} = \frac{-9x + 8}{5}$$

- A. $x \in [2.82, 5.82]$
- B. $x \in [19.9, 22.9]$
- C. $x \in [-0.32, 2.68]$
- D. $x \in [7.04, 13.04]$
- E. There are no real solutions.

-
12. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [-3.2, -0.6]$, $B \in [-0.47, 2.53]$, and $C \in [-2.6, -1.5]$
- B. $A \in [3.6, 4.2]$, $B \in [-4.11, -1.78]$, and $C \in [5.4, 7.9]$
- C. $A \in [-3.2, -0.6]$, $B \in [-1.64, 0.98]$, and $C \in [1.9, 4]$

D. $A \in [-4.8, -3]$, $B \in [2.28, 3.26]$, and $C \in [-9.4, -4.7]$

E. $A \in [3.6, 4.2]$, $B \in [2.28, 3.26]$, and $C \in [-9.4, -4.7]$

13. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Perpendicular to $6x - 7y = 6$ and passing through the point $(7, -2)$.

A. $m \in [-0.91, -0.66]$ $b \in [2, 6.5]$

B. $m \in [-1.52, -1.16]$ $b \in [2, 6.5]$

C. $m \in [-1.52, -1.16]$ $b \in [-9.4, -7.3]$

D. $m \in [1.14, 1.33]$ $b \in [-10.2, -9.8]$

E. $m \in [-1.52, -1.16]$ $b \in [-7.6, -5.5]$

14. Solve the equation below. Then, choose the interval that contains the solution.

$$-11(-8x + 10) = -6(-13x + 17)$$

A. $x \in [20.5, 21.5]$

B. $x \in [0.2, 1]$

C. $x \in [-22.5, -20.4]$

D. $x \in [1.1, 2.2]$

E. There are no real solutions.

15. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Parallel to $7x - 6y = 12$ and passing through the point $(2, -9)$.

A. $m \in [0.76, 1.05]$ $b \in [-11.78, -11.17]$

B. $m \in [1.13, 1.3]$ $b \in [11.14, 11.58]$

C. $m \in [-1.45, -1.1]$ $b \in [-7.04, -6.43]$

D. $m \in [1.13, 1.3]$ $b \in [-11.01, -10.53]$

E. $m \in [1.13, 1.3]$ $b \in [-11.78, -11.17]$

16. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{7x - 8}{5} - \frac{5x + 4}{7} = \frac{4x - 7}{8}$$

A. $x \in [-1.08, 0.3]$

B. $x \in [0.51, 0.88]$

C. $x \in [26.71, 27.58]$

D. $x \in [6.5, 7.26]$

E. There are no real solutions.

17. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$$(-9, -8) \text{ and } (-10, 3)$$

A. $m \in [-13, -7]$ $b \in [107, 110]$

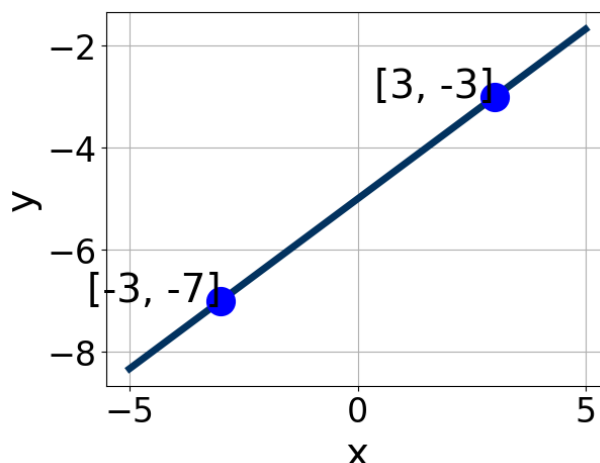
B. $m \in [5, 13]$ $b \in [110, 116]$

C. $m \in [-13, -7]$ $b \in [13, 19]$

D. $m \in [-13, -7]$ $b \in [-113, -106]$

E. $m \in [-13, -7]$ $b \in [0, 4]$

18. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [-0.9, -0.3]$, $B \in [-1.86, -0.87]$, and $C \in [3, 12]$
 B. $A \in [-0.9, -0.3]$, $B \in [0.8, 2.46]$, and $C \in [-11, -4]$
 C. $A \in [0.5, 2.3]$, $B \in [1.88, 3.18]$, and $C \in [-20, -12]$
 D. $A \in [-5.1, -1.8]$, $B \in [1.88, 3.18]$, and $C \in [-20, -12]$
 E. $A \in [0.5, 2.3]$, $B \in [-3.74, -2.96]$, and $C \in [12, 16]$

19. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$$(-7, -10) \text{ and } (4, -5)$$

- A. $m \in [-1.05, -0.36]$ $b \in [-3.31, -3.02]$
 B. $m \in [0.14, 0.87]$ $b \in [6.13, 6.98]$
 C. $m \in [0.14, 0.87]$ $b \in [-9.15, -8.92]$
 D. $m \in [0.14, 0.87]$ $b \in [-6.97, -6.66]$
 E. $m \in [0.14, 0.87]$ $b \in [-3.08, -2.79]$

20. Solve the equation below. Then, choose the interval that contains the solution.

$$-17(-4x - 5) = -16(-12x + 19)$$

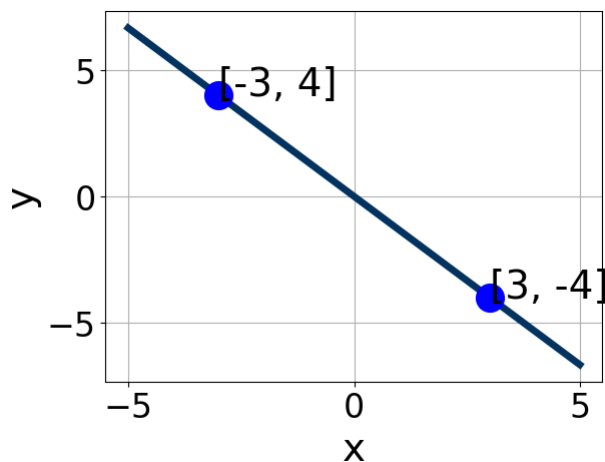
- A. $x \in [-2.58, -1.04]$
 - B. $x \in [0.12, 1.3]$
 - C. $x \in [0.92, 2.31]$
 - D. $x \in [2.37, 3.57]$
 - E. There are no real solutions.
-

21. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-6x - 7}{8} - \frac{3x + 9}{7} = \frac{-5x - 9}{4}$$

- A. $x \in [-39, -36.6]$
 - B. $x \in [-0.8, 0.2]$
 - C. $x \in [97.1, 99]$
 - D. $x \in [-2.6, -1.1]$
 - E. There are no real solutions.
-

22. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [0.33, 2.33]$, $B \in [-1.2, 0.9]$, and $C \in [-3, 6]$
- B. $A \in [0.33, 2.33]$, $B \in [0.2, 2.1]$, and $C \in [-3, 6]$

- C. $A \in [3, 5]$, $B \in [2.9, 4.9]$, and $C \in [-3, 6]$
D. $A \in [3, 5]$, $B \in [-4.6, -2.1]$, and $C \in [-3, 6]$
E. $A \in [-5, -1]$, $B \in [-4.6, -2.1]$, and $C \in [-3, 6]$
-

23. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Parallel to $5x + 6y = 12$ and passing through the point $(9, 2)$.

- A. $m \in [-1.23, -0.94]$ $b \in [6.2, 11.4]$
B. $m \in [-0.98, -0.67]$ $b \in [-10.7, -8.1]$
C. $m \in [-0.98, -0.67]$ $b \in [6.2, 11.4]$
D. $m \in [0.59, 0.84]$ $b \in [-6.6, -2.7]$
E. $m \in [-0.98, -0.67]$ $b \in [-7.4, -6.1]$
-

24. Solve the equation below. Then, choose the interval that contains the solution.

$$-7(-11x + 8) = -9(-5x - 4)$$

- A. $x \in [-0.79, -0.5]$
B. $x \in [0.45, 0.7]$
C. $x \in [2.28, 3.02]$
D. $x \in [-0.02, 0.34]$
E. There are no real solutions.
-

25. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Perpendicular to $7x - 4y = 12$ and passing through the point $(-8, -10)$.

- A. $m \in [-0.8, -0.5]$ $b \in [14.57, 15.57]$

- B. $m \in [-0.8, -0.5]$ $b \in [-4, 0]$
C. $m \in [-2.2, -1.59]$ $b \in [-15.57, -10.57]$
D. $m \in [-0.8, -0.5]$ $b \in [-15.57, -10.57]$
E. $m \in [0.38, 1.39]$ $b \in [-8.43, -4.43]$
-

26. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{9x - 8}{7} - \frac{9x + 5}{3} = \frac{-9x - 7}{4}$$

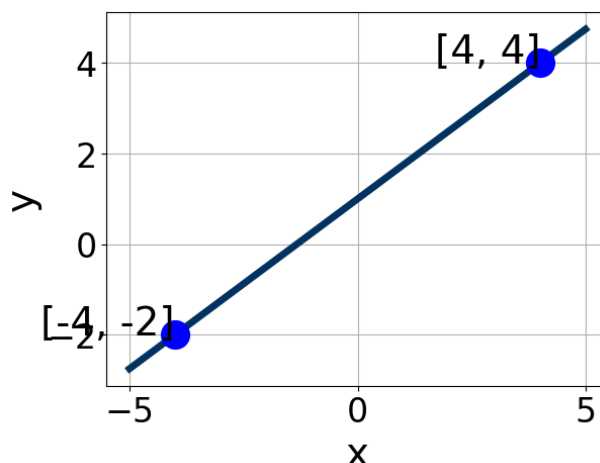
- A. $x \in [-4.3, -3.1]$
B. $x \in [9.5, 12.2]$
C. $x \in [-0.6, 0.4]$
D. $x \in [1.2, 3]$
E. There are no real solutions.
-

27. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$$(-10, 10) \text{ and } (-8, -4)$$

- A. $m \in [-7, 0]$ $b \in [15, 26]$
B. $m \in [2, 13]$ $b \in [49, 59]$
C. $m \in [-7, 0]$ $b \in [2, 6]$
D. $m \in [-7, 0]$ $b \in [-64, -56]$
E. $m \in [-7, 0]$ $b \in [57, 66]$
-

28. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [2.6, 5.1]$, $B \in [-4.19, -2.6]$, and $C \in [-5.2, -2.9]$
 B. $A \in [-2.4, 2.1]$, $B \in [-1.84, -0.71]$, and $C \in [-1.1, 0.7]$
 C. $A \in [2.6, 5.1]$, $B \in [2.4, 4.21]$, and $C \in [2.8, 4.9]$
 D. $A \in [-2.4, 2.1]$, $B \in [0.92, 1.29]$, and $C \in [0.7, 1.2]$
 E. $A \in [-3.2, -1.6]$, $B \in [2.4, 4.21]$, and $C \in [2.8, 4.9]$

29. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$$(-9, 11) \text{ and } (-2, -10)$$

- A. $m \in [-5, 0]$ $b \in [-24, -13]$
 B. $m \in [-5, 0]$ $b \in [-8, -7]$
 C. $m \in [-5, 0]$ $b \in [14, 17]$
 D. $m \in [1, 5]$ $b \in [-6, -3]$
 E. $m \in [-5, 0]$ $b \in [20, 24]$

30. Solve the equation below. Then, choose the interval that contains the solution.

$$-10(-5x - 3) = -8(-9x - 12)$$

- A. $x \in [-7.5, -4.6]$
 - B. $x \in [-1.2, -0.3]$
 - C. $x \in [5, 6.7]$
 - D. $x \in [-4.3, -2.1]$
 - E. There are no real solutions.
-